INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/09213

				
A. CLAS	SSIFICATION OF SUBJECT MATTERCl ⁷ C01B31/02, C01B31/12, B0	09B3/00, C10B53/00, C10B1	/10	
According	to International Patent Classification (IPC) or to bot	h national classification and IPC		
	DS SEARCHED			
Minimum Int	documentation searched (classification system follow . C1 ⁷ C01B31/02, C01B31/12, B0	ved by classification symbols) 1983/00,C10853/00,C1081	/10	
Jits Koka	ation searched other than minimum documentation to suyo Shinan Koho 1922-199 ui Jitsuyo Shinan Koho 1971-200	6 Jitsuyo Shinan Toroku Koh 3 Toroku Jitsuyo Shinan Koh	1996–2003 1994–2003	
	data base consulted during the international search (r	name of data base and, where practicable, sea	urch terms used)	
	MENTS CONSIDERED TO BE RELEVANT		Γ	
Category*	Citation of document, with indication, where		Relevant to claim No.	
Y	JP 9-22712 A (Kazuteru SHI) 02 September, 1997 (02.09.9 Full text (Family: none)	NOHARA), 7),	1-18	
.Y	JP 51-36287 A (Kobe Steel, 27 March, 1976 (27.03.76), Full text (Family: none)	Ltd.),	1-18	
Y	JP 11-37432 A (Tsukishima F 12 February, 1999 (12.02.99) Par. No. [0009]; Fig. 2 (Family: none)	(ikai Co., Ltd.),	1-18	
× Furthe	or documents are listed in the continuation of Box C.	See patent family annex.	<u> </u>	
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document referring to an oral disclosure, use, exhibition or other than the priority date and not in conflict we understand; "Z" document of particular relevance; considered novel or cannot be considered novel or cannot b			th the application but cited to underlying the invention he claimed invention cannot be idered to involve an inventive one he claimed invention cannot be step when the document is such documents, such soilled in the art tent family	
lame and mailing address of the ISA/ Japanese Patent Office		Authorized officer Telephone No		

INTERNATIONAL SEARCH REPORT

International application No. PCT/JP03/09213

		·	·
C (Continua	ation). DOCUMENTS CONSIDERED TO BE RELEVANT		· · · · · · · · · · · · · · · · · · ·
Category*	Citation of document, with indication, where appropriate, of the relevan	t passages	Relevant to claim No.
Y	JP 57-15838 A (Central Glass Co., Ltd.), 27 January, 1982 (27.01.82), Claims; page 1, right column, lines 4 to 5 (Family: none)	5; Fig. 1	1-18
Y	JP 48-34366 A (Masato TANAKA), 18 May, 1973 (18.05.73), Page 2, upper right column, line 10 to low left column, line 7; Fig. 1 (Family: none)	er .	1-18
Y	<pre>JP 7-70613 A (Nippon Steel Corp.), 14 March, 1995 (14.03.95), Claim 3; Par. Nos. [0008], [0010]; Fig. 1 (Family: none)</pre>		1-4,7-18
Y	JP 8-278082 A (Toyoda Automatic Loom Work 22 October, 1996 (22.10.96), Par. Nos. [0021] to [0023] (Family: none)	s, Ltd.),	3,4
Y	JP 63-176989 A (Daido Netsu Kagaku Kabush Kaisha), 21 July, 1988 (21.07.88), Claims (Family: none)	iki .	3,4
Y	JP 11-76977 A (Yamatomi Sangyo Kabushiki 23 March, 1999 (23.03.99), Par. Nos. [0011], [0025]; Figs. 1, 3 (Family: none)	Kaisha),	7,10-12
Y	JP 2003-64372 A (Noriyuki YAMAZAKI), 05 March, 2003 (05.03.03), Claims; Figs. 1 to 5 (Family: none)	·	9,17
Y	JP 2003-34518 A (Noriyuki YAMAZAKI), 07 February, 2003 (07.02.03), Claim 1 (Family: none)		16,17
			· · · · · · · · · · · · · · · · · · ·
1			

Form PCT/ISA/210 (continuation of second sheet) (July 1998)